

Oxyura vittata (Philippi, 1860) (Aves, Anatidae): range extension and first record from the Upper Paraguay basin, Brazil

Francisco Severo-Neto,^{1,2} Lucas Leuzinger,³ Sandro Paulino de Faria⁴

1 Universidade Federal do Mato Grosso do Sul, Laboratório de Zoologia, Cidade Universitária, Bairro Universitário, CEP 79070-900, Campo Grande, Mato Grosso do Sul, Brazil. **2** Universidade Estadual Paulista “Júlio de Mesquita Filho”, Instituto de Biociências, Letras e Ciências Exatas, Departamento de Zoologia e Botânica, Laboratório de Ictiologia, Rua Cristóvão Colombo, 2265, Jardim Nazareth, CEP 15054-000, São José do Rio Preto, SP, Brazil. **3** Barranco Alto Eco-Lodge, Rua Dr. Arthur Jorge, 1367/901, CEP 79010-210 Campo Grande, Mato Grosso do Sul, Brazil. **4** Universidade Federal do Paraná, Programa de Pós-Graduação em Zoologia, Avenida Cel Francisco H Santos, 100, Jardim das Americas, CEP 81531-980, Curitiba, Paraná, Brazil.

Corresponding author: Francisco Severo-Neto, netosevero@hotmail.com

Abstract

This note extends the range of *Oxyura vittata* (Philippi, 1860) to the Upper Paraguay basin in the Brazilian Pantanal and presents the first record of this species from Mato Grosso do Sul state.

Key words

Lake Duck; migratory birds; Pantanal.

Academic editor: Galo Buitron-Jurado | Received 4 May 2016 | Accepted 30 May 2017 | Published 14 August 2017

Citation: Severo-Neto F, Leuzinger L, Faria SP (2017) *Oxyura vittata* (Philippi, 1860) (Aves, Anatidae): range extension and first record from the Upper Paraguay basin, Brazil. Check List 13 (4): 285–287. <https://doi.org/10.15560/13.4.285>

Introduction

The Lake Duck, *Oxyura vittata* (Philippi, 1860) (Aves, Anatidae), is a resident of the Chilean lowlands from Atacama south to Chiloe Island. East of the Andes, it occurs in Argentina from La Rioja and San Juan to the south to Tierra del Fuego. This species also nests along the east from Rocha to Montevideo in Uruguay (Arballo and Cravino 1999, Johnsgard 2010, Carboneras et al. 2016). After the breeding season, *O. vittata*, like other ducks in the Southern Cone, migrates during the winter, reaching southern Brazil, Paraguay and Bolivia (Carboneras et al. 2016). However, droughts have caused birds to detour from their regular flyway to the Falklands and Deception Island (Kear 2005, Carboneras et al. 2016). In Brazil, this species is considered an irregular visitor to Rio Grande

do Sul, with records from April to August (Belton 1994), but the WikiAves Photo Archive (<http://www.wikiaves.com>) also documents summer records from Laguna and Joinville in Santa Catarina state and Curitiba in Paraná state. Here, we present the northernmost record to *O. vittata* and the first records for the Upper Paraguay basin in the Brazilian Pantanal.

Methods

On 3 July 2009, we recorded *O. vittata* at the Nhecolândia subregion of the Pantanal (*sensu* Hamilton et al. 1996), in Barranco Alto Eco-Lodge, municipality of Aquidauana, Mato Grosso do Sul, Brazil (19°30'06" S, 56°09'05" W). A digital voucher is available at WikiAves (Leuzinger 2009). A female individual (Fig. 1) was



Figure 1. *Oxyura vittata* recorded in a salina in the Nhecolândia subregion of the Pantanal in the 2009 winter. Photograph by Lucas Leuzinger.

observed among a flock of Red Shovelers (*Anas platalea* Vieillot, 1816) while foraging and swimming in a brackish pond, locally known as “salina” (see Medina-Júnior and Rietzler 2005).

Results

Our identification of the species follows Kear (2005) and Sick (1997) and was confirmed by experts, Alessandro Pacheco Nunes and Fábio Olmos. The observed individual was simply identified by the white stripe on the lateral of its head, which separate *O. vittata* from the very similar *Nomonyx dominica* (Linnaeus, 1766).

Oxyura vittata is a small diving duck characterized by stiff tails, and strong sexual dimorphism and display courtship (Sick 1997). Males exhibit chestnut body plumage and bright blue bills; females show a complex drab brown coloration (Sick 1997, Kear 2005). In comparison to the very similar *O. ferruginea* (Eyton, 1838), *O. vittata* is smaller with a flatter head and proportionately longer

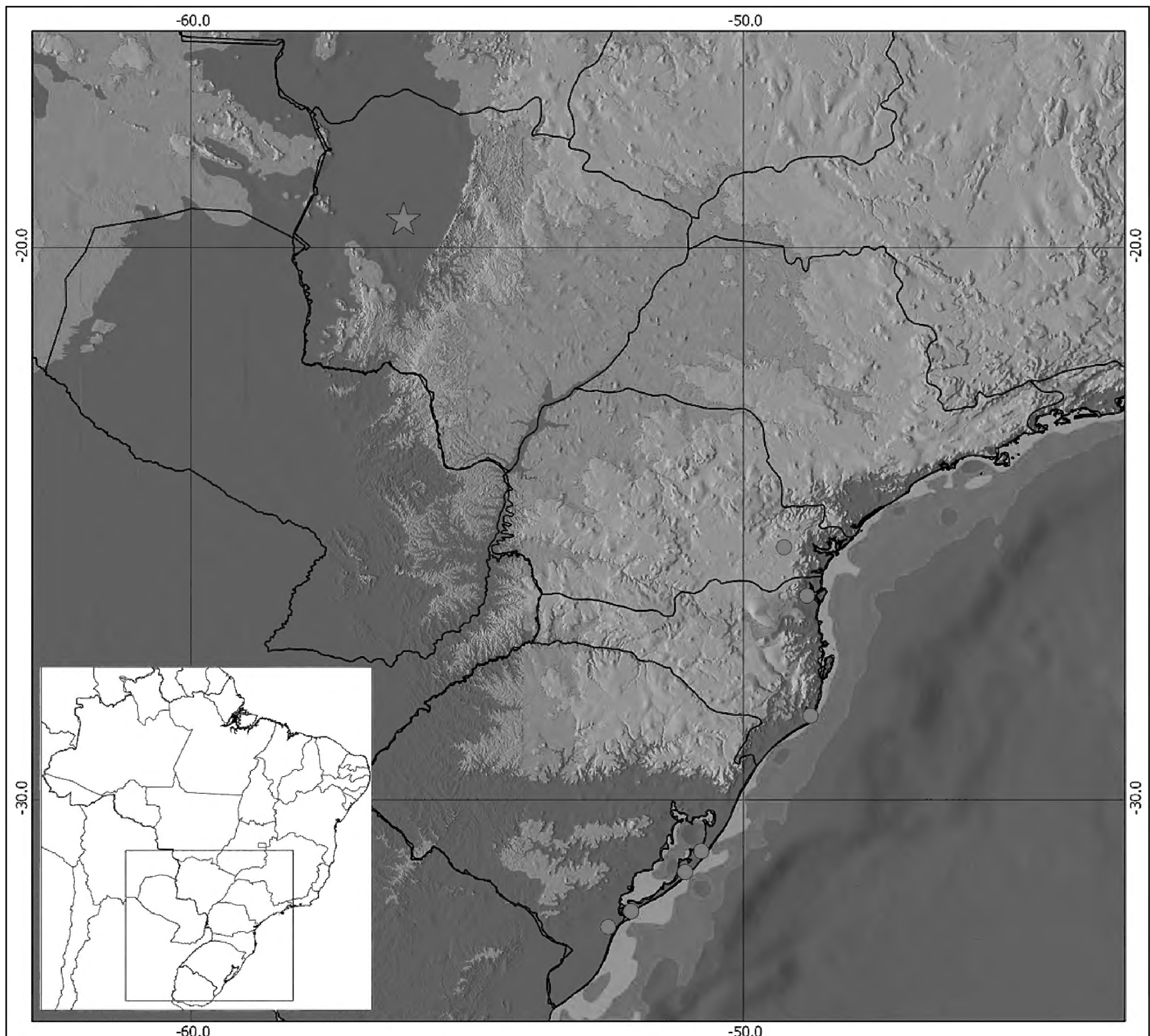


Figure 2. Distribution map of *Oxyura vittata* in Brazil. Red circles: records extracted from WikiAves (2008); yellow star: the new record to Mato Grosso do Sul State and Pantanal.

tail and shorter bill. Males are distinguished from *O. ferruginea* by lacking white on the chin and having rich, dark chestnut colour that lacks true reddish tones. The head and the whole neck are black. Females have more patterned flanks than *O. jamaicensis* (Gmelin, 1789) and a vermiculated reddish-buff back (Sick 1997, Carboneras et al. 2016).

Discussion

Based on previous and current sources (Quezada et al. 1986, Brandolin et al. 2011, eBird 2016) database, our record extends the regular range of *Oxyura vittata* for 670 km from the nearest point, located in the Argentinean Chaco. For Brazil, it is nearly 1,000 km from the nearest location along the country's southern coast (WikiAves 2016) and the first documented record to Pantanal ecoregion and Mato Grosso do Sul State (Fig. 2).

In the southern province of Santa Fe, Argentina, *O. vittata* was considered a rare bird at Melincué Lagoon, (Romano et al. 2015). Its wintering areas are known to be in the humid Chaco and northern Pampas (Birdlife 2015), and thus, our record likely represents a wandering migrant individual if we consider that many southern species of ducks migrate to the Pantanal. The salinas, and baías (freshwater ponds), are favoured sites for migratory waterfowl in the Pantanal floodplain (Nunes and Tomas 2008), including in Barranco Alto, where several migratory waterfowl species such as *Dendrocygna bicolor* (Vieillot, 1816), *Coscoroba coscoroba* (Molina, 1782), *Sarkidionis sylvicola* (H. von Ihering & R. von Ihering, 1907), *Callonetta leucophrys* (Vieillot, 1816), *Anas bahamensis* Linnaeus, 1758, *Netta peposaca* (Vieillot, 1816) and *Nomonyx dominica* (Linnaeus, 1766), with many likely coming from southern South America (Leuzinger, unpublished data). Previous observations of migratory birds in the Barranco Alto region suggest that harsh winters are important cause of southern species occurring in northern sites. Although undocumented, the winter in 2009 reached lower temperatures than usual and our record of *O. vittata* reinforces this hypothesis. However, additional records, as well as long term observations and temperature data, are needed to confirm this hypothesis.

Acknowledgements

We thank Fabio Olmos and Alessandro Pacheco Nunes

for their valuable contributions and for assisting in the confirmation of the species.

Authors' Contributions

LL collected the data, identified the species and provided the photograph record; FSN, LL and SPF wrote the text; FSN provided the map.

References

- Antas PTZ (1994) Migration and other movements among the lower Paraná River valley wetlands, Argentina, and the south Brazil/Pantanal wetlands. *Bird Conservation International* 4 (2–3): 181–190. <https://doi.org/10.1017/s0959270900002768>
- Arballo E, Cravino J (1999) *Aves del Uruguay: Manual Ornitológico*. Editorial Hemisferio Sur, Montevideo, 465 pp.
- Belton W (1994) *Aves do Rio Grande do Sul: Distribuição e Biologia*. Editora UNISINOS, São Leopoldo, 584 pp.
- Brandolin PG, Ávalos MA, Martori R (2011) Waterbirds from wetlands of the southeast of the Córdoba province, Argentina. *Check List* 7 (4): 537–541. <https://doi.org/10.15560/7.4.537>
- Carboneras C, Kirwan GM (2016) Lake Duck (*Oxyura vittata*). In: del Hoyo J, Elliott A, Sargatal J, Christie DA, de Juana E (Eds) *Handbook of the Birds of the World Alive*. Lynx Edicions, Barcelona. <http://www.hbw.com/node/52937>. Accessed on: 2016-2-24.
- Hamilton SK, Sippel SJ, Melack JM (1996) Inundation patterns in the Pantanal wetlands of South America determined from passive microwave remote sensing. *Archiv für Hydrobiologie* 137 (1): 1–23.
- Johnsgard PA (2010) *Ducks, Geese, and Swans of the World*. University of Nebraska Press, Nebraska-Lincoln, 387 pp.
- Kear J (2005) *Ducks, Geese and Swans*, Vol. 1. University of Oxford Press, Oxford, 908 pp.
- Leuzinger L (2009) WA620925, *Oxyura vittata* (Philippi, 1860). WikiAves—A Enciclopédia das Aves do Brasil. <http://www.wikiaves.com/620925>. > Accessed on: 2015-5- 5.
- Medina-Júnior PB, Rietzler AC (2005) Limnological study of a Pantanal saline lake. *Brazilian Journal of Biology* 65 (4): 651–659. <https://doi.org/10.1590/s1519-69842005000400013>
- Nunes AP, Tomas WM (2008) *Aves Migratórias e Nômades Ocorrentes no Pantanal*. EMBRAPA-CPAP, Corumbá, 124 pp.
- Quezada AE, Oyarzo H, Ruiz VH (1986) Distribución de avifauna en los distintos 'Habitats' del Estuario Andalién, Bahía de Concepción, Concepción, Chile. *Journal Studies on Neotropical Fauna and Environment* 21 (4): 197–206. <https://doi.org/10.1080/01650528609360707>
- Romano M, Barberis IM, Luppi M, Pagano F (2015) Non-passerine birds from Laguna Melincué Ramsar Site, Santa Fe province, Argentina. *Check List* 11 (6): 1799. <https://doi.org/10.15560/11.6.1799>
- Sick H (1997) *Ornitologia Brasileira*. Editora Nova Fronteira, Rio de Janeiro, 862 pp.
- WikiAves (2008) WikiAves—A Enciclopédia das Aves do Brasil. <http://www.wikiaves.com/620925>. Accessed on: 2015-5- 5.